

VARIABLE FREQUENCY MICROWAVE HEATING APPARATUS

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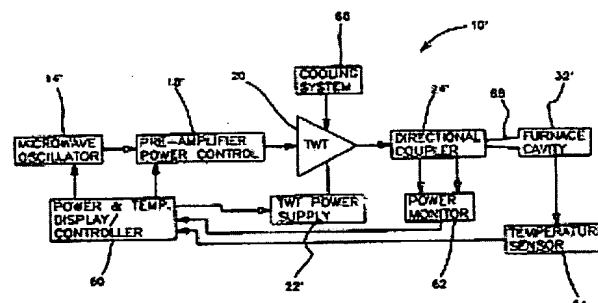
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A variable frequency microwave heating apparatus (10') designed to allow modulation of the frequency of the microwaves introduced into a multi-mode microwave cavity (32') for testing or other selected applications. The variable frequency microwave heating apparatus (10') includes a traveling wave tube (TWT) (20). A power and temperature display/controller (60) receives input from a power monitor (62) and a temperature sensor (64). The power monitor (62) receives input from the directional coupler (24') which detects the direction and amplitude of signals incident upon and reflected from the microwave cavity (32'). The power and temperature display/controller (60) further serves to control the microwave oscillator (14'), the pre-amplifier power control (18') and the TWT power supply (22'). A cooling system (66) is provided for cooling the TWT (20). A tapered waveguide coupler (68) acts as an impedance transformer.



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